Claims

- 1. A process for producing biodiesel fuel, wherein vegetable or animal oils and fats or wastes thereof are mixed with methanol, and a methanolysis reaction is carried out without the use of a catalyst under reaction conditions where glycerin is not generated.
- 2. The process according to claim 1, wherein the reaction conditions where glycerin is not generated constitute a reaction temperature of between 370°C and 500°C, a reaction pressure of between 20 MPa and 60 MPa, and a reaction period of between 4 minutes and 12 minutes.
- 3. The process according to claim 1, wherein degradation of a carbon chain in a fatty acid group is carried out in parallel with the methanolysis reaction.
- 4. The process according to claim 1, wherein the vegetable or animal oils and fats or wastes thereof are mixed with methanol at a volume ratio of 1:2 to 2:1.
- 5. The process according to claim 1, wherein the methanolysis reaction is carried out in a Hastelloy reaction tube in which adequate mixing conditions can be maintained.
- 6. Biodiesel fuel that is mainly composed of fatty acid methyl esters, monoacylglycerol, and diacylglycerol.